



Transportation Aviation

Client

Memphis Shelby County Airport
Authority (MSCAA)/Tennessee Air
National Guard (TN ANG)

Location

Memphis, TN, USA

164th Airlift Wing Base Relocation Program

The TN ANG chose to have MSCAA execute this program. CH2M HILL was selected as the program manager for MSCAA, and is responsible for design management, construction management, and program management.

CH2M HILL has the authority to negotiate with, manage, and oversee the work of 4 AE design teams and 5 construction contractors. Total program cost is approximately \$245million.

Program Management

CH2M HILL is responsible for managing the design and construction costs, to keep them in line with the ANG Maximum Construction Costs (MCC) developed by the ANG. Strategic planning functions include making recommendations for alternative delivery options; evaluating mass procurement for potential Program-wide savings; maintaining a financial data base that tracks multiple funding sources, the budget, reserves, and remaining budgets; and preparing and maintaining a cost-loaded master Program schedule. The baseline schedule was built within the first month of the Program and was further developed as the Contractor's provided the construction schedules.

Design Management

CH2M HILL assisted with selection of AEs to perform Type B (design) services for 5 separate design packages: Site, Apron/POL, Hangars, Administrative, and Industrial Facilities. This included managing and executing the process of advertising for qualifications, short listing the firms, interviewing, and recommending AEs for hire. CH2M HILL then negotiated the AE contracts for Type B (design) and Type C (construction) services on behalf of MSCAA. Two Design Managers provided oversight and quality assurance guidance to the AE firms to ensure strict adherence to the Type A (planning) documents previously prepared by CH2M HILL, control scope and cost creep, and maintain ANG ETL requirements.

Construction Management

Two of the contracts were traditional competitive bid awards. Three contractors were selected at the 65% design phase using a pre-qualification process. CH2M HILL managed the process of SOQ submittals, developing shortlists, conducting interviews, and participating in the final selection. These three Contractors were paid a "pre-construction" fee for providing constructability reviews and independent cost estimates at 65 percent and 95 percent design complete status. The benefits of this process included time saving of approximately 6 months and allowing MSCAA to award the contract within the budget.

During construction CH2M HILL provides oversight of contractor work by providing QA survey, inspection, and testing services. The CM is supported by three Resident Engineers and several full-time inspectors. The Program is constructed in accordance with IBC 2003 requiring the use of Special Inspectors in the areas of steel, concrete, and masonry. The CM team manages AE Type C services (submittal reviews, responding to Requests for Information, periodic inspections and record drawing production).